

Title (en)  
PATTERNED CONDUCTIVE ARTICLE

Title (de)  
GEMUSTERTER LEITFÄHIGER ARTIKEL

Title (fr)  
ÉLÉMENT CONDUCTEUR À MOTIFS

Publication  
**EP 3967114 A1 20220316 (EN)**

Application  
**EP 20725235 A 20200505**

Priority  
• US 201962843739 P 20190506  
• IB 2020054264 W 20200505

Abstract (en)  
[origin: WO2020227280A1] A patterned article includes a unitary polymeric layer and a plurality of electrically conductive elements embedded at least partially in the unitary polymeric layer. Each electrically conductive element includes a conductive seed layer having a top major surface and an opposite bottom major surface in direct contact with the unitary polymeric layer, and includes a metallic body disposed on the top major surface of the conductive seed layer. The metallic body has a bottom major surface and at least one sidewall. The bottom major surface contacts the conductive seed layer. Each sidewall is in direct contact with the unitary polymeric layer and extends from the bottom major surface of the metallic body toward or to, but not past, a top major surface of the unitary polymeric layer. The conductive elements may be electrically isolated from one another. Processes for making the patterned article are described.

IPC 8 full level  
**H05K 3/10** (2006.01); **H05K 3/00** (2006.01); **H05K 3/20** (2006.01); **H05K 3/24** (2006.01)

CPC (source: CN EP KR US)  
**H01Q 1/38** (2013.01 - US); **H05K 1/0296** (2013.01 - US); **H05K 1/0353** (2013.01 - US); **H05K 3/0014** (2013.01 - US); **H05K 3/103** (2013.01 - US); **H05K 3/107** (2013.01 - CN EP KR); **H05K 3/207** (2013.01 - US); **H05K 3/242** (2013.01 - EP); **H05K 3/244** (2013.01 - US); **H05K 3/4644** (2013.01 - US); **H05K 3/0014** (2013.01 - CN EP KR); **H05K 3/207** (2013.01 - CN EP KR); **H05K 3/246** (2013.01 - CN EP KR); **H05K 2201/09118** (2013.01 - CN EP KR US); **H05K 2203/0108** (2013.01 - CN EP KR US); **H05K 2203/0152** (2013.01 - US); **H05K 2203/0156** (2013.01 - US); **H05K 2203/0723** (2013.01 - US)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2020227280 A1 20201112**; CN 113711438 A 20211126; CN 113767716 A 20211207; CN 113767716 B 20240730; EP 3966897 A1 20220316; EP 3966897 A4 20231101; EP 3967114 A1 20220316; JP 2022531873 A 20220712; KR 20220004152 A 20220111; US 12048092 B2 20240723; US 2022167499 A1 20220526; US 2022183153 A1 20220609; WO 2020225731 A1 20201112

DOCDB simple family (application)  
**US 2020031450 W 20200505**; CN 202080029749 A 20200505; CN 202080030643 A 20200505; EP 20725235 A 20200505; EP 20803032 A 20200505; IB 2020054264 W 20200505; JP 2021565853 A 20200505; KR 20217038993 A 20200505; US 202017602659 A 20200505; US 202017602886 A 20200505